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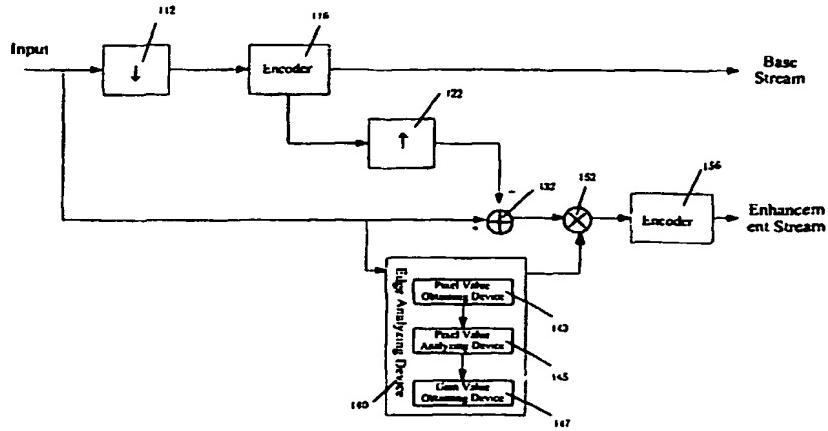
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(54) Title: METHODS AND APPARATUS FOR SPATIAL SCALABLE COMPRESSION SCHEM



(57) Abstract: The present invention provides a method for compressing the video stream with the spatial stratification, firstly, encoding said video stream after drop-sampling to obtain a base stream; then, decoding and rise-sampling said base stream to obtain a reconstructed stream; subtracting the reconstructed stream from said video stream to obtain a residual stream; next, carrying out the edge detection and analysis for said video stream to obtain the gain value of each pixel in the video stream; finally, multiplying said gain value by said residual stream and encoding the obtained result to obtain an enhanced stream. The invention further finely fractionizes the type of each pixel to obtain its corresponding more accurate gain value, thereby further decrease the number of the transmitted data and the transmitting bit rate required by the enhanced layer based on the premise that the quality of images can be ensured.

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